

L4 ANSWER 386 OF 561 CA COPYRIGHT 2004 ACS on STN  
 AN 110:120184 CA  
 ED Entered STN: 03 Apr 1989  
 TI Hydraulic cement with high durability and strength  
 IN Uchida, Shunichiro; Habara, Toshisuke  
 PA Onoda Cement Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 8 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 IC ICM C04B007-345  
 CC 58-1 (Cement, Concrete, and Related Building Materials)  
 FAN.CNT 1

|      | PATENT NO.    | KIND | DATE     | APPLICATION NO. | DATE     |
|------|---------------|------|----------|-----------------|----------|
| PI   | JP 63248751   | A2   | 19881017 | JP 1987-79717   | 19870402 |
| PRAI | JP 1987-79717 |      | 19870402 |                 |          |

AB The hydraulic cement contains  $11\text{CaO} \cdot 7\text{Al}_2\text{O}_3 \cdot \text{CaX}_2$  (X = halogen) 5-30, anhydrite 5-30,  $\text{Al}(\text{OH})_3$  and/or  $\text{Al}_2(\text{SO}_4)_3$  0.5-10%, and balance Ca silicate and/or siliceous powder at a  $(\text{CaO}-3\text{Al}_2\text{O}_3-\text{SO}_3)/\text{SiO}_2$  mol ratio .ltoreq.1.7. Thus, cement, comprising  $11\text{CaO} \cdot 7\text{Al}_2\text{O}_3 \cdot \text{CaF}_2$  13, C3S 27, blast-furnace slag 40, anhydrite 19, and  $\text{Al}(\text{OH})_3$  1 wt.%, was mixed with sand, alkali-resistant glass fiber, Mighty 150,  $\text{HNO}_3$  (as setting retardant), and water, molded, and hardened to give a cement product having initial, 7-, and 91-day bending strength 240, 320, 290 kg/cm<sup>2</sup>, resp.

ST calcium aluminate hydraulic cement; silicate calcium hydraulic cement; anhydrite hydraulic cement; aluminum hydroxide hydraulic cement; blast furnace slag hydraulic cement

IT Glass fibers, uses and miscellaneous

RL: USES (Uses)

(cement reinforced with, manuf. of